

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 January 2005 (06.01.2005)

PCT

(10) International Publication Number
WO 2005/000324 A3

(51) International Patent Classification⁷: **A61K 33/38**,
A61P 31/04, 31/12, A61L 2/00, B01J 13/00

(21) International Application Number:
PCT/US2004/017567

(22) International Filing Date: 3 June 2004 (03.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/475,657 3 June 2003 (03.06.2003) US

(71) Applicant (for all designated States except US): **AMERICAN BIOTECH LABS** [US/US]; 70 West Canyon Crest Road, Suite D, Alpine, UT 84004 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HOLLADAY, Robert, J.** [US/US]; 490 East 1200 North, Logan, UT 84341 (US). **CHRISTENSEN, Herbert** [US/US]; 1116 E. Cottenwiid Circle, Alpine, UT 84004 (US). **MOELLER, William, D.** [US/US]; 1151 N. Grove Drive, Alipne, UT 84004 (US).

(74) Agent: **KIRCHANSKI, Stefan, J.**; Reed Smith LLP, Suite 700, 1901 Avenue of the Stars, Los Angeles, CA 90067 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(88) Date of publication of the international search report:
24 March 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COLLOIDAL SILVER COMPOSITION HAVING ANTIMICROBIAL PROPERTIES

(57) Abstract: Colorless composition comprising silver particles and water, wherein said particles comprise an interior of elemental silver and an exterior of ionic silver oxide, wherein the silver particles are present in the water at a level of about 5-40 ppm, and wherein the composition manifests significant antimicrobial properties. Methods of use of the composition are described. The composition can be incorporated into a hydrogel with essentially no loss of antimicrobial properties.



WO 2005/000324 A3